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DR-1144 APRIL 1980

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METEOROLOGICAL DATA REPORT.

12823A LANCE Missile No. 5093, Round 344 NCL, 16 April 1980

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WHITE SANDS METEOROLOGICAL TEAM

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✓ ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO

14) ERADCEM/ASK-DR-1144

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UNITED STATES ARMY ELECTRONICS COMMAND

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4. TITLE (and Subilita) 12823A LANCE		5. TYPE OF REPORT & PERIOD COVERED
Missile Number 5093		
Round Number 344 NCL		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(a)		8. CONTRACT OR GRANT NUMBER(=)
White Sands Meteorological Team		DA Task 1F665702D127-02
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20. ABSTRACT (Continue as reverse side if recessary as	d Ideally by block numbers	
Meteorological data gathered for the		he 12823A LANCE Missile
Number 5093 and Round Number 344 No	CL are presented	in tabular form.
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JAL Significant Level Data at 0800 MST-----

JAL Upper Air Data at 0800 MST-----

12. JAL Mandatory Levels at 0800 MST-----

21

23

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Distr	bution	
Aya1	Abilit"	
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#### INTRODUCTION

12823A LANCE , Missile Number 5093 , Round Number 344 NCL
was launched from DON SITE , White Sands Missile Range (WSMR), New Mexico
at 0800 MST on 16 April 1980 . The scheduled launch time was
0800 MST
DISCUSSION
Meteorological data were recorded and reduced by the White Sands Meteorological Team. Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexic The data were obtained by the following methods:
1. Observations a. Surface (1) Standard surface observations to include pressure, temperature ( $^{0}$ C), relative humidity, dew point ( $^{0}$ C), density (gm/m $^{3}$ ), Wind direction and spee and cloud cover were made at the <u>DON</u> Met Site at T-O minutes.
(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.
b. Upper Air (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:
SITE AND ALTITUDE
DON 2220 METERS DON 3660 METERS
(2) Air structure data (rawinsonde) were collected at the following

Met Sites. Data were collected from surface to <u>high as possible</u> feet in

SITE AND TIME WSD 0750 MST HMN 1000 MST

500-feet increments.

JAL 0800 MST

TABLE 1. Surface Observations taken at 0800 MST, 16 April 1980, at Don Site, 12823A LANCE, Missile Number 5093, Round Number 344 NCL.

ELEVATION	3996.83	FT/MSL
PRESSURE	876.2	MBS
TEMPERATURE	15.5	°c
RELATIVE HUMIDITY	19	%
DEW POINT	-8.0	°c
DENSITY	1054	GM/M <sup>3</sup>
WIND SPEED	CALM	KTS
WIND DIRECTION		DEGREES
CLOUD COVER	CLEAR	

# PILOT BALLOON MEASURED WIND DATA

TABLE	_2									
RELEASED	FROM DON	SITE		DATE	16 April	1980			TIME 0750	MST
RELEASE F	OINT COO	RDINATES	S (W	ISTM) X=	511,988.37		247	396.36	H= 3990	5.83
NOTE: WI	IND DIRECTI	ONS ARE	REF	FERENCED T	O TRUE NORT	TH.				
HEIGHTS A	ARE METERS	AGL_XX	OR	FEET AGL_	•					
	DIRECTION			HEIGHT	DIRECTION	SPEED		HEIGHT		
AGL	DEGREES	KTS		AGL	DEGREES	KTS	}-	AGL	DEGREES	KTS
SFC	200	CALM		1860	342	12	}			
60	096	01		1920	339	12	-	· ·		<del> </del>
120	006	07		1980	336	13	<b> </b>			<u> </u>
180	350	09		2040	337	12	{		ļ	
240	354	09		2100	334	13	-			ļ
300	329	10		2160	334	11				
360	331	08		2220	328	10	-			<b></b>
420	330	09								
480	323	09								
540	314	09								
600	317	09								
660	323	09								
720	337	09								
780	346	08								
840	352	08						<del></del>		
900	352	08					1			
960	359	09					1			
1020	001	10								
1080	348	09								
1140	342	09					1			
1200	345	09			f	<b> </b>	1			
1260	340	09					1			
1320	342	08		<u> </u>	<del> </del>		1			
1380	344	08		<b></b>			1			
1440	337	09				<del> </del>	1 +			
1500	337	09			<u>.</u>	<b> </b>	{			<del></del>
1560	337	10				<del> </del>	1 }			
<b> </b>	337	10					1 }			
1620	<b></b>	<del> </del>					1 -			
1680	337	11					1 -			<del></del>
1740	339	11					1 -			

## PILOT BALLOON MEASURED WIND DATA

LABEE_	3	-				
RELEAS	ED FROM_	DON SITE	DATE 16 April 1980		TIME 0800 MST	
RELEAS	ED POINT	COORDINATES (W	X=511,988.37	y= <b>247,396.3</b> 6	H= 3996.83	_
NOTE:	WIND DIR	ECTIONS ARE REF	ERENCED TO TRUE NORTH.			

HEIGHTS ARE METERS AGL\_XX OR FEET AGL\_\_\_.

neignis i	HAC METERS	AGL_XX
HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
SFC		CALM
60	224	04
120	332	07
180	351	08
240	341	10
300	333	07
360	324	08
420	316	07
480	322	06
540	313	08
600	319	08
650	308	08
720	324	8
780	338	08
840	351	07
900	360	07
960	348	08
1020	328	08
1080	327	08
1140	328	10
1200 _	333	08
1260	34]	07
1320	329	08
1380	317	09
1440	331	09
1500	340	10
1560	350	11
1620	350	10
1680	343	13
1740	351	11
1800	338	12

HEIGHT	DIRECTION	LCDCCD
AGL	DEGREES	SPEED KTS
1860	335	12
1920	338	11
1980	332	12
2040	332	12
2100	321	11
2160	312	09
2220	315	11
2280	313	08
2340	311	11
2400	304	12
2460	298	13
2520	297	10
2580	290	11
2640	285	11
2700	288	09
2760	288	12
2820	297	12
2880	283	11
2940	287	12
3000	291	14
3060	287	15
3120	278	16
3180	291	16
3240	281	15
3300	271	17
3360	271	17
3420	279	15
3480	274	17
3540	273	18
3600	278	20
3660	280	20

	1	•
HEIGHT AGL	DIRECTION DEGREES	SPEED KTS
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		<del> </del>
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		··
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L		

9.00 FEET MSL	0750 HRS MST
1 TITUDE 3989	10 07 07 07 07 07 07 07 07 07 07 07 07 07
STATION A	16 APR. BB

DATA		
SIGNIFICANT LEVEL	1070020199	WHITE SANLS

The second second

TABLE 4

GEODETIC COOKUINATES 32.40043 LAT DEG 106.37033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPEI AIR DEGREES	RATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
880.9	3989.0	•		
67.3	424	16.4	r m	32.0
å	586	•		
50.	166	20.3	1.7	29.0
•	56	•	•	•
756.3		14.6	-3.2	0.67
ė	0392.	8•1	•	
'n	•	-2.1		•
٠.	•	0.6-	_	•
ņ	•	•	å	•
8	17007.6	8.8-	-26.1	23.0
ö	_	•	•	•
8	•	-21.5	•	
•	_	•	~	•
8	-	•	9	
~	•	-34.4	7	
	28889.8	ġ	6.64-	•
•	-	•	•	,
<b>ھ</b>	•	•		
•	-	•		
æ	-	-51.2		
æ	_	•		
ė	•	50.		
ھ	_	-52.0		
ھ	_	55.		
0	_	•		
ņ	_	-58.3		
ņ	_	٠		
ņ	_	•		
o	_	6.09-		
ň	-	+.09-		
0	61742,7	•		
'n	62538.1	-64.1		
ņ	64116,3	•		
ۏ	619	-61.5		
•	86	-58.1		
:	240	-54.8		
33.7	76955.5	-55.4		
ċ	176	-54.5		
	8	9.64-		•

STATION ALTITUDE 3989.00 FEET MSL 16 Apr. 40 0750 HRS MSI ASCENSION NO. 199

SIGNIFICANT LEVEL DATA 1070020199 WHITE SANDS

The first term of the second s

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

TABLE 4 (CONT)

PRESSURE GEOMETRIC TEMPERATURE REL.HUM.
ALTITUDE AIR DEWPOINT PERCENT
MILLIBARS MSL FEET DEGREES CENTIGNADE

12.3 98824,5 -42.0 11.1 101144,3 -38.7

6

C COORDINATES 40043 LAT DEG 37033 LON DEG	INDEX OF REFRACTION	1.000263	1.000263	2	00025	0025	00004	1.000241	1.000236	1.000232	00022	1.00020	1.000216	1.000213	1.000212	1.000205	1.000202	1.000199	1.000195	1.000192	1.000169	1.000166	1.000182	1.000175	•	1.000168	1.000164	1.000161	1.000158	1.000156	1.000153	0001	41000	<b>.</b>	1000	00014 00014	51000	1000	200
GEODETIC 32.4 106.3	SPEED KNOTS	4.1	4.1	N•3	4.6	•	5.3	•	•	•	o .	9 0	9.6	0 4	6	6.0	9.7	6•6		11.2	12.3	13.6	14.0	10.0	21.7	24.0	26.3	27.3	27.8	•	21.5	•	•	•	•	•	•	•	•
	WIND DA' DIRECTION DEGREES(TN)	340.0	339.9	33500	331.9	3<8.5	333.1	50.	357.3	355.7	355.5	- N+0	0.0.0	2444	3000	314.0	306.7	300.9	295.b	292.4	589.9	287.7	255.9	26.25	284.6	267.9	291.4	540.6	289.2	267.8	280.7	28/98	* F T T T T	7.002	0 · 00 / 0	1.02		1 - CO2	0
۸ ا ا ا	SPEED OF SOUND KNOTS	604.7	7.400	0.500	4.900	b.8.1	6.999	6.599	9.400	603.4	662.3	0.090	05%.0	2007	655.4	651.9	650.2	4.949	646.7	645.0	643.2	641.5	639.8	0.000	034.6	4.459	633.6	632.0	•	٠ •		Ω.	$\mathbf{r}$	N	9	•	617.5	ត់ :	014.0
UPPER AIR DAT 1070020159 WHITE SANLS TABLE 5	DENSITY S GM/CUBIC METER	1054.1	1053.7	1034.0	002	988.9	9.426	•	_	•	920.5	•		•	0 · C · C	851.3	839.9	828.6	817.6	806.7	795.9	785.3	7.4.7	753.	742.7	728.9		_	•	685.4	•	S i	•		ຄຸ້	•	9 5		1.866
- '	REL.HUM. PERCENT	32.0	32.0	30.6	29.0	29.0	29.0	29.6	29.0	29.0	29.0	29.0	20.0	200	0 F	33.6	34.8	36.1	37.4	38.7	39.9	40.7	39.5	36.4	35.0	31.3	23.1	22.8	22.5	22.3	22.1	22.3	7.77	0.62	NO.	20.02	7 · · · · · · · · · · · · · · · · · · ·	? * * * ? ·	* * * * * * * * * * * * * * * * * * *
ET MSL MST	TEMPERATURE R DEWPOINT EES CENTIGRADE	*	₹.	•	1.7	1.5	9.	2.5	•	-	N I	- F		1.0-	7.7-		F.6-	-10.1	÷	-11.9	လံ	-13.8	15.6	10.0	-20.8	-22.2	-26.0	27.	28	53	31	22	3:		3,5	ę;	• ,		0 • AC •
9.00 FE 750 HRS	TEMP AIR DEGREES	17.2	17.2	17.5	20.3	20.0	19.1	18.1	17.1	16.1	15.1	10.9	* * * * * * * * * * * * * * * * * * *	0 0 0	) K	•		4.6	•	ů	6:-	-2-3	2 C	9.6	-8.0	-8.2	8-8-	_	_	-12.7	T • † T •	15.4	1001	0	** 6 T	•		123.4	24.0
7UDE 398 0 . 199	PRESSURE MILLIBARS	860.9	9.088	865.0	84648	834.8	820.1	805.6	791.3	777.4	763.6	2000	7.25	7.0.1	7.01,	684.2	671.5	659.0	646.7	634.7	655.9	611.2	5999 5004	5,996	565.6	254.7	244.0	533.3	522.8	512.5	502.5	492.4	0.284	0.2/4	7.00	400.4	• • •	n v	420.0
STATION ALLITUDE 16 Apr. 65 ASCEISION NO. 1	GEOMETRIC ALTITUDE MSL FEET	3989.0	4000.0	4500.0	200000	5500.0	0.0009	0.0050	7000.0	7500.0	8000.0	8500.0	0.000	7500	0.0001	1000	1500	12000.0	12500.0	3000	3500.	+000h	4500	0.00051	6000	16500.0	7,000	7500.	გი <b>0</b> 0	8500·	9000	9500 2	<b>0</b> 000	20200-0	U-00017	21500.0	2000	•	22000.0

GEODETIC COORDINATES	32,40043 LAT DEG	106.37033 LON DEG
UPPER AIR DATA 1070020199	WHITE SANUS	TABLE 5 (CONT)
STATION ALTITUDE 3989.00 FEET MSL	16 APR. 80 0750 HRS MST	ASCENSION NO. 199

	INDEX	OF REFRACTION	1.000132	•	•	1.000126	•	•	•	•	1.000115	•	•	•	•	•	•	•	•	•	•	1.000094	•	-	•	1.000087	•	•	1.000062	•		•		-	•	•	1.0000c8	•	000	1.000064	000	8
	<b>V</b> 1	SPEED	28.9	29.4	31.1	33.5	36.9	•	•	•	•	47.5	ċ	0	0	49.5	~	•	വ	3	43.7	'n	43.6	ċ	÷	40.5	ċ		42.5	r.	ů,	٠	8	ġ.	50.1	_;	٠	å	તં	<b>:</b>	50.5	6
	WIND DATA	DIRECTION DEGREES(TN)	281.4	278.8	274.7	270.3	207.3	•	•	201.5	260.6	•	261.0	561.9	201.7	202.5	564·1	2000	268•5	209.5	270.3	270.7	271-1	270.4	269.8	209.1	569.0	₩•69Z	•	274.3	277.6	280.7	280.3	279.8	275.8	271.9	671.0	270.3	271.6	272.4	•	270.8
( )	SPEED OF	SOUND	612.3	610.7	0.609	607.6	bu6.1	2.409	603.2	602.3	602.0	•	549.9	•	597.4	_	-	5,3,5		590.9		ر د							582.3	581.4	580.4	560.3	580.2	580.1	•00	•	49	500.6	50000	579.8	579.4	~
ABLE 5 (CONT)	DENSITY	ပ	588.9	579.9	571.0	561.5	52.	43.	534 • 1	524 • 4	513.5	204.1	495.1	4.984	477.7	•	461.0	452.9	L. 222	436.7	428.9	421.2	413.6	405.7	397.1	386.8	380.9	373.4	366.0	358.8	ഗ	343.7	335.9	328.2	320.8	311.9	305.1	σ	92.	285.7	279.4	73.
_	REL.HUM.	PERCENT	24.6	24.8	25.0	25.4	25.9	26.3	26.7	26.8	26.1	25.4	54.6	22.8**	17.5**	12.1**	6.7**	1.4*																								
	TEMPERATURE	DEWPOINT CENTIGRADE	E • 0 †-	-41.5	-45.6	オ・ドナー	り・カナー	-45.1	0.94-	9.94-	-47°0	6.44-	0.6%	-50.5	-53.6	-57.4	ċ	h• h2-																								
	TEMF	AIR DEGREES	-26.1	-27.5	-28.8	-30.0	-31.1	-32.3	-33.4	-34.2	-34.	-35.1	-36.1	-37.0	-38.0	-39.0	0.04-	-41.0	-42.1	-43.1	-44.1	-45.1	-46.2	-46.9	-47.3	T.7.7	148.3	0.64-	1.64-	20	-51.2	2	2	51.	•	ċ	ċ	-	-51.3	-51.7	-52.0	-52.6
	PRESSURE	MILLIBARS	417.6	409.0	400.5		383.7			359.7	352.	* 7 7 7		529.7															234.7			218.9	213.9	208.9	204.1	199.4	194.8	•	185.9	181.6	177.4	173.3
	GEOME THIC	ALTITUDE MSL FEET	23500.0	•	24500.0	25000.0	25500.0	56000.0	26500.0	27000.0	27500.0	28000.0	28500.0	29000.0	29500.0	300000	30500.0	31000.0	31500.0	32000.0	32500.0	33000·0	33500.0	34000.0	34500.0	35000.0	35500.0	36000.0	36500.0	37000.0	37500.0	38000.0	38500.0	29000.0	•	•	-	41000.0	41500.0	420u0.0	_	43000.0

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

ETIC COORDINATES 32.40043 LAT DEG 06.37033 LON DEG	INUEX OF REFRACTION	1.000060	1.000059	1.000057	1.000056	1.000055		1.000053	1.000051	1.000050	1.000049	070000	10000 10000	3+000046	77000	1.000043	*0000	1.00001	1.000040	1.000039	1.000038	1.000037	1.000036	00003	1.000035	#70000 T	1.000032	1 • 000032	1.000031	1.000030	1.000029	1.000029	1.000068	1.000028	1.00004	1.000026	1.000026	1.000025	1.000024
6E ODE TIC 32.40 106.31	SPEED KNOTS	49.3	50.5	52.6	53.8	24.1	55.8	57.1	56.3	24.7	1.63					37.8	38.1	38.6	<b>~</b> ,	36.5	Ø I	•	ø 1	64/6	27.0	25.0	24.1	25.8	27.4	28.3	29.3	30.8	31.4	27.1	22.6	15.8	9.6	4.9	3 3
	WIND DAT DIRECTION DEGREES(TN)	569.9	269.8	270.5	272.4	574.9	276.6	278.0	274.9	260.0	281.8	* CON	8000	2000 2000 2000 2000 2000	2022	263.9	203.0	283.7	283.8	283.8	263.6	283.4	263.2	1.022	0.007	20.00	265.4	206.8	268-1	289.7	291.6	296.5	3000	306.6	313.0	311-1	•	220.3	224.2
UATA 199 NUS (CONT)	SPEED OF SOUND KNOTS	577.7	576.8	576.0	575.1	574.4	573.9	573.3	572.7	572.2	571.6	0.1/0	0.176	570.4	2000	570.7	570.6	570.0	570.5	5.9.6	508.3	267.6	507.6	D•/30	1.000	5,7,7	567.3	5.6.9	5,00	500.0	5 <sub>6</sub> 5.6	565.2	51:4.8	5.4.3	503.4	5,3.5		5.3.3	565.1
UPPER AIR DAT 1070020199 WHITE SANDS TABLE 5 (CON	DENSITY S GM/CUBIC METER	268.1	262.7	257.3	252.1	246.8	241.4	236-1	231.0	226.0	221.1	210.2	2.112	2002	1961	191.9	187.4	183.0	178.7	175.0	1/1.5	107.8	163.8	7.661		148.5	145-1	141.8	138.6	135.4	132.3	129.3	126.4	123.5	120.7	118.0	115.2	112.4	108.9
•	REL.HUM. PERCENT																																						
9.00 FEET MSL 750 HRS MST	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-53.2	-53.9	-54.6	-55.3	-55.8	-56.2	-56.6	-57.0	57	7 · · · · · · · · · · · · · · · · · · ·	a de la companya de l	7 · 00 · 0	1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,001	-58.5	-58.6	-58.6	-58.7	154.4	160.5	**************************************	160.9	100-	1000	000	~61.1	-61.4	-61.7	-62.1	-62.4	-62.7	-63.0	-63.3	-63.6	-63.9	-64.1	1.49-	-62.8
11TUDE 398 0 No. 199	PRESSURE HILLIBARS	169.3	165.3	161.5	157.7	154.0	150.4	146.8	43	139.9	136.0	2000	127.1	124.1	121.1	118.2	115.4	112.7	110.0	****	0.401	C-707	0.40	95.1	6.76	90.5	86.3	86.2	84.1	82.1	1.08	78.1	76.2	<b>5.5</b>	72.6	70.8	Ġ.	67.4	65.6
STATION ALTITUDE 16 APR - 60 ASCELSION NO. 1	GEOMETRIC ALTITUDE MSL FEET	43500.0	0.00044	44500.0	45000.0	45200.0	46000.0	46500.0	_	47500.0	480000	0.0004	0.000	50000	500,00	51000.0	51500.0	24000.0	52500.0	0.00000	52500.0	•	54560.0				-	57500.0	58000.0	56500.0		•	•	-	•	_	•	625,00.0	0.00000

STATION ALTI 16 APR - 60 ASCENSION NO	TUDE 39	89.00 FEET MS 0750 HRS MS1	IT MS.	-	UPPER AIR DATA 1070020199 WHITE SANUS TABLE 5 (CON	UATA 99 US (CONT)		6E0DE11C 32.40 106.37	DETIC COORDINATES 32,40043 LAT DEG 106.37033 LON DEG
GEUMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AI	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WINC DA DIRECTION DEGREES(IN)	DATA SPEEU	INDEX OF REFRACTION
•	ı						:		
63500.0	64.2	-61.3	-		105.6	567.0	242.8	5.8	
0.000+9	62.7	-59.8			102.3	569.0	236-1	7.3	1.000023
0.00540	61.1	-59.9			6.66		233.9	3. 3.	1.000022
•	59.7	-60.3			97.7	266	232.6	9.3	1.000022
65500.0	58.2	-60.8			95.6	567	235.6	4.6	1.000021
-	56.8	-61.3			93.5	26	242.0	4.6	1.000021
_	55.5	-61.1			91.1	567	0.642	9.6	1.000020
0.00079	24.5	<b>-60.4</b>			88.7		254.4	9.5	1.000020
67500.0	52.9	-59.7			86.3		201.5	8.8	.0000
68000.0	51.6	-59.0			83.9		268.3	•	.0000
68500 · C	50.4	-58.3			81.7		2.0.5	٠. د	.0000
0.00069	40.2	-57.8			79.5	571.7	273.9	2.0	1.000018
	•	-57.4			77.5		276.5	6.1	•
70000.0	ŝ	-56.9			75.5		270.6	6.7	1.000017
70500.0	45.8	-56.5			73.6		260.8	6.8	•
71(100.0	44.7	-56.0			71.7		504.0	7.6	1.000016
71500.0	43.6	-55.6			6.69		270.5	10.3	
72000.0	45.6	-55.5			68.1		293.9	13.0	1.000015
72500.0	41.6	54.			<b>66.4</b>	-	317.8	10.3	
73000.0	9.04	6.45-			6.49		350.0	10.1	
73500.0	39.7	-54.9			63.4		28.4	11.4	.0000
74000.0	38.8	-55.0			61.9		20.1	16.0	.0000
74500.0	37.9	-52•T			60.5		4.79	20.3	•
75000.0	37.0	-55.1			59.1		2.09	18.3	
75500.0	36.1	-55.2			57.7		9.40	16.2	10000
16000-0	35.3	22			56.4		9.09	14.1	.0000
76500.6	さっさい	-55.3			55.1		41.6	12.0	.0000
77000.0	33.6	-55.4			53.8		1.67	10.1	
77500.0	32.8	-55.2			52.5		0.09	•	.00001
78000.0	32.1	-55.0			51.2		2.46	•	10000
78500.0	31.3	-24.8			50.0	575.6	1.05	8.2	1.00001
19000.0	30.6	-24.7			48.8		0.66	7.8	
$\overline{}$	29.9	-54.5			47.6		J•66	7:4	
30°00.0	29.5	-54.5			ċ		102.3	4.6	1.000010
80500.0	28.5	-53.9			45.3	576	104.6	12.6	
610000	27.9	-53.6			44.2	577	104.7	14.7	1.000010
61500.0	27.2	-53.3			43.1	s	966	14.6	1.000010
82000.0	56.6	-53.0			42.1	578.0	3.36	14.5	1.000009
2	26.0	-52.8			41.1	570.4	506	•	1.000009
63000.0	25.4	-55.5			40.1	578.7	66.3	12.5	1.000009

STATION ALITIUDE 3989	TITUDE 390	89.00 FEET MSL 0750 HRS MST		-	UPPER AIR DATA 1070020199 WHITE SANDS	7140 80 80 80		6E00E11C	ETIC COORDINATES 32,40043 LAT DEG
ASCENSION NO	NO. 199				TABLE 5 (	(CONT)		9	
GEOME TRIC	PRESSURE	α.	JRE	REL.HUM.	DENSITY	۳	WIND DATA	TA	INDEX
MSL FEET	MILLIBARS	DEGREES CENTI	CENTIGRADE	rencen.	METER	KNOTS	DEGREES (TN)	KNOTS	REFRACTION
63500.0	24.8	-52.2			39.1		81.5	11.4	
•	24.5	-51.9			38.1	9.625	9000	10.0	1.000008
4500	23.7	-51.6			37.2		49.9	8.6	00000
	23.1	-51.3			36.3		19.0	7.3	00000
85500.0	22.6	-51.1			35.4		78.9	•	00000
86000.0	22.1	-50.8			34.6		•	•	1.000008
66500.0	21.6	-50.5			33.7		78.9	•	1.000008
87000.0	21.1	-50.2			32.9		79.1	•	1.000007
87500.0	20.6	6.64-			32.1	582	19.4	9 9	1.000007
88000.0	20.1	-#8·7			31.3		~		00000
88500.0	19.6	-49.3			30.6		80.5	•	00000•
89000.0	•	0.64-			29.8		81.4	O: #	•
89500.0	•	-48.6			29.1	8.503	3.58 3.50	O :	•
0.00006	•	-48÷			7.82		7.0	ກໍດ	•
90500.0	17.9	0.74-			27.7	7.564.7	7.06	200	1.000006
91500.0		-47.2			26.4		95.5	9	
92000.0	•	ഹാ			25.8		97.0	10.2	1.000006
92500.0		-46.5			25.2		93•1	11.6	1.000006
93000.0	16.0	-46•1			54.6		98.5	11.8	1.000005
93500.0	\$	<b>=</b> 45∙8			24.0		0.66	15.1	1.000005
000	15.3	-42.4			23.4		<b>7.66</b>	12.3	1.000005
94500.0	S	-45.1			22.9		*•66	11.6	1.000005
_	÷	L.44-			22.3		•	11.0	1.000005
95500.0	<b>.</b>	ま · コ : - : - : - : - : - : - : - : - : - :			21.8		1.001	***	500000-1
0.0000	•	0.55			7.00		2071	7	600000-1
90500.0		0 1 1			1.02			2 4	
9.00076	•	7 0 0			7 0 C		, ,	1	
•	• •	4 - 2 th			100		- 4	•	
0.00000	12.0	0.74			7	291.0	20001	0 4	*00000
200000	200	45.45 40.10			3.6		)	•	
	: -	0.14			17.0	503			*00000*
10000	-				17.5	504			
00000		9.64-			17.0	505			10000
0100		-38.9			•				1.000004

4 ALTITUDE 3. 80 10N NO. 199	ALIITUDE 3989.00 FEET MSL 80 0750 HRS MST N NO. 199	S MST	2	MANDATORY LEVELS 1070020199 WHITE SANDS TABLE 6	EVELS 99 US		GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG
	PRESSURE	PRESSURE GEOPOTENTIAL	TEMF		REL . HUM.	WIN; DATA	~
	MILLIBARS	FEET	AIK DEGREES	CENTIGRADE	PERCENI	DEGREES (TN)	KNOTS
	850.0	4988.	20.3	1.7	29.	331.9	9.
	9008	•	17.7	2.5	29.	355.6	6.9
	750.0		13.9	-3.7	.63	349.7	9.6
	700.0	10382	8.1	-7.6	32.	324.8	6.5
	650.0	12368.	2.4	-10.8	37.	297.0	10.2
	0.009		-3.7	-15.5	39.	286.0	14.9
	550.0		1-8-	-23.7	, 85	289.4	25.0
	500.0		-14.4	-31.4	22.	286.4	27.1
	450.0	0 21682.	-21.3	-36.5	24.	284.5	23.9
	0.004		-28.9	-45.6	25.	274.5	31.2
	350.0		194.4	-47.1	9,	260.5	46.8
	3000		-41.3		ı	266.7	£0.0#
	250.0	3 35063.	-47.8			268.9	6.65
	200.0		-50.4			272.6	50.8
	175.0		-52.3			271.2	£9.8
	150.0		-56.2			276.7	55.9
	125.0		-58.4			283.6	34.5
	1001		-60.9			283.2	34.1
	80.0		-62.4			291.7	29.3
	70.0		-64.1			309.7	13.0
	0.09		-60.2			232.9	0.6
	50.0	Ī	-58.1			271.0	2.0
	0.04	•	-54.9			11.9	10.7
	30.0		-54.5			0.66	7.5
	25.0		-52.3			84.0	11,9
	20.0	30	9.6%-			•	5.3
	15.0	93930.	-45.1			<b>†•66</b>	11,6

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE ,NTERPOLATION.

SIAIJUN ALIIIUDE *120.59 PEEL MOL	1000 HRS MST	.s
ALI 11 00E	80	NO. 11
 SIAI	16 ApR. 80	ASCFNSTO

DATA		
GNIFICANT LEVEL	70010115	LOMAN
SIGNIFIC	2	HOLL

GEODETIC COOKDINATES 32.8UB65 LAT DEG 106.09965 LON DEG

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٥	Y	
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REL.HUM. PERCENT	**************************************	
ERATURE DEWPOINT CENTIGRADE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
TEMPE AIR DEGREES		
GEOMETRIC ALTITUDE MSL FEET	4126 6510.0 10393.0 10393.0 10393.0 10393.0 10035.0 10	
PRESSURE MILLIBARS	88 9 7 7 9 8 8 8 9 7 7 8 8 8 8 9 7 8 8 8 8	•

ALTITUDE 4126.59 FEET MSL 1000 HRS MST	رم.
STATION ALTITUDE 16 APR. 80	115 NO. 115
STAT	ASCE

SIGNIFICANT LEVEL DATA 1070010115 HOLLOMAN

GEODETIC COOKDINATES 32.84865 LAT DEC 106.09965 LON DEG

TABLE 7 (CONT)

REL.HUM. PERCENT TEMPERATUKE AIK DEWPOINT DEGREES CENTIGNADE

-52.2 PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET 23.4 84120.1

14

3 APR 60 100 ASCENSION NO. 115	115	1000 HRS MST	į		TABLE 8			• • •	יים יים היים היים היים היים היים היים ה
GEUMETHIC PRESSUME ALIITUNE MSL FEET MILLIBARS		TEMP AIR Degrees	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL . HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNGTS	WIND DATA	TA SPEED KNOTS	INUEX OF REFRACTION
120.6 878	878.0	50.9	-5.8	16.0	1038.4	008.6	0.	•	1.000249
	866.5	20.8	6.4	35.1	_	649	6.6	_	1.000266
	851.3	18.8	7.00	35.9	1012.4	o o	•		.00026
	<b>836.3</b>	17.4	2•1	35.7			9.0	, and	1 • 000255
	H21.4	16.1	8.	35.3			9.9	7.4	.00024
	6.908	14.8	•	35.0	÷		<b>9•</b> 0	9.5	•
	<b>5.</b> 5.	13.9	-1.3	35.0	959.0	601.	2•1		1.000239
	B•2	13.1	-2.0	35.0	8.446	_	3.3	•	•
	بر ا	12.1	-2.8	35.1	931.0		~	•	1.000231
	750+3	10.7	•	35.9	918.8		359.1	15.1	•
		9•5	•	36.7	906-8		50	•	1.000222
	123.2	7.8	-5.8	37.6	895.0	653.6	357.6	•	•
	710.1	6.3	-6.8	38.4	83.		354.9	13.0	•
	7.0	6•4	-7.8	39.3			352.2		•
	0.4	3.5	-8.6	40.6	859.7		3+6+8	•	_
11500.0 671	ر. ا	ر د د	<b>h•6</b>	41.9	_		341.5	11.2	•
	3.	<b>.</b>	-10.5	43.2	-		331.6	•	1.000200
	7 :	្ត :	-11-1	9.44	824.6		317.9	•	1.000197
	o •	6•1-	-12.0	ΩI	_		303.5	٠	1.000194
	٦. م	0 to 1	-12.9	D. 74	•	640	295•B	•	•
	T • 0	\ • <del>  •   •   •   •   •   •   •   •   • </del>	-13.8	8 9	-	<b>6</b> 38∙	290.1	•	•
	† 4	7	8 • ÷ 1 •	50.5		. د	292•3	•	000
15500.0		0 - 0	9.01.	51.0	יי מ מיני	2.000	0.067	•	•
	3	10.5	3.61	7.44.7	747.0	0.00	2000 C + 2004	7	1.000178
10500.0 553.	55.5.4	-11.7	100.00	39.8	736.9	0.54.4	30.505		1.000170
	S•5	-12.0	-25.4	31.8	53	7.609	300.6		
	1.8	-13.1	-26.6	30.9	12.	4.0.0	310.0	80	00016
130000.0	2.1	-14.1	-27.9	59.9	7.007	627.1	313.7	18.4	•
	<u>ت</u> د	-15.2	-29.1	29.0	9.689		317.6	18.4	1.000157
	~•	-16.2	-30.4	28.1	678.7	9.4.9	320.9	18.7	1.000154
	٠. د	-17.5	•	28.0	•	623.0	319.6	19.6	.0001
	≠ .	-18.3	-32.7	28.0	•	t <sub>∠</sub> 1.4	313.1	20.3	1.000149
	n (	20.	-33.8	28.0	647.5	619.8	320.6	20.5	1.000146
	<b>.</b>	-21.4	•	28.0	•	018.2	324.7	20.3	1.000144
	**	-22.7	•	æ		616.6	333.6	6	1.000141
<b>3</b> 7 :	٠,	-24.0	-37.2	28.0	-	615.0	339.2	19.6	1.000139
<b>.</b>	33.0	ż.	39	æ.	90	613.4	3+0+6	ċ	.00013
<b>†</b> :	24.1	-26.6	-39.5	28.0	2669	6110	341.7	20.4	•
•0 415	7.4	-27.8	9.04-	æ	89.	010.5	343.2	0	

ITE UEG	ر ا <b>لد</b>			_	0	œ	و ب	<b>.</b>	Ņ	0.	<b>80</b>	ع	<b>3</b>	<b>~</b> !	0	9	ڡۣ	ŧ	ď	9	98	9	Ţ	Š	0	δò	وِ	Ñ	ň	<u>-</u>	ي ق	æ	٥	<b>.</b>	ω,	<b>-</b>	ا ت		¢	ŧ	E.	~	9	0
COINA LAT			INDEX	OF REFHACTION	1.00013	1.00012	1.000126				1.000118						1.000106		1.000102	1.000100		1.000096	1.000094	1.000092	1.000090	1.0000kB		1.000065	1.000063	1.0000b1	1.000000	1.000078	1.000076	1.000074	1.000073	1.0000.1	1.00006.9	1.000067	1.0000ce	1.000604	1.000003	1.00000	1.0000c	1.000059
JEODET 1	106.0		TA.	SPEED	20.9	21.3	21.8	22.4	22.8	23.0	23.0	22.5	22.2	22.5	23.1	24.2	25.0	24.5	24.1	23.9	24.0	25.5	27.2	28.4	29.5	31.5	35.5	39.9	41.9	44.1	45.0	40.5	46.5		9000	51.0	51.2	•	49.3	•	47.9	4B•0	48.4	49.3
		•	ATAU UATA	DIRECTIO, DEGREES(TN)	346.4	351.4	355.6	350.4	355.9	352.9	349•3	343.7	337.5	320.1	325.4	314.9	315.3	312.9	309.9	303.6	2.27.5	293.6	291.5	286.5	280.3	274.0	267.6	202.6	200.3	209.1	273.0	210.3	217.8	2/0.0	2/4.3	2/3.7	2/3.2	2/3•1	273.7	274.4	275.2	270.0	276.4	277.7
हमाह 18	(CONT)	. ;	SPEED OF	ביטטים אויט TS	9.809	0.704	4.000	6(3.8	602.2	6,00,5	594.9	5,7,3	5,45.0	543.8	5,75.7	591.7	260°6	569.6	5.8.6	587.5	586.5	5 <sub>c</sub> 5.5	564.9	5,4.3				5º1.2	579.9	579.2	576.4	577.8	578.0	578.1	578.3	4°629	5.79.9	2000	579.6	579.0	78	577.8	577.7	577.2
UPPER AIR LA 107001011E HOLLOMAN	TABLE 8 (	•		GM/CUBIC METER	580.8	_	562.5	53.	544.3	535.5	526·8	518.3	210.0		492.4	483.2	1.4/4	465.1	456+3	9.255	439.0	30.	421.7	412.8	404.1	395.6	387.5	380.4	373.4	365.6	358.0	3-1105	342.2	0.400	320.0	317.3	309.4	302.0	295.5	<b>.</b>	33	77.	270.8	564.9
,			_	PERCENT	28.0	28.1	28.4	28.7	29.0	29.3	29.6		*S*	2° ##																														
T MSL MST			FEMPERAIORE	DEWPOINT CENTIGRADE	-41.8	-42.0	6.64	-45.0	-46.0	0.44-	-48.1	1 • ú h =	-53.9	-70.3																														
26.59 FEET MSL 1000 HRS MST			Σ	AIR DEGKEES	-29.1	4.05-	-31.7	-33.0	-34-3	-35.5	-36.8	-38-1	-39.4	a•0+1	-41.	-42.5	-43.5	-44.1	0.75	-45.7	-46.5	-47.3	-47.8	-48.5	-48.6	0.64-	-49.5	-50.6	-51.6	-52-1	-52.	7.00	-53.1	6.25	-52·8	-54.i	0.10	*•1C-	-51.3	-52.3	-52.7	-53.1	-53.2	-53∙6
#	115 M		TKESSORE	MILLIUARS	400.9	398.5	586°6	381.5	373.3	565.3	357.4	340.B	542.1	334.0	327.2	919.9	312.8	305.8	299.0	292.2	285.6	279.5	272.8	200.0	260.5	254·6	240.8	243.1	237.5	232.0	226.0	C•177	210.2	1.112	2002	102	0.061	7.261	187.8	183.4	179.2	•	171.0	•
STATION ALTITUDE	ASCERISTON NO.		DE UNIT INTO	ALTITUDE MSL FEET	24000.0	244,000.0	45000 P	25500.0	600000	26500.0	27000·0	27500.n	24000.0	28500.0	0.00.62	29500.0	20,000.0	30500.0	51000.0	31500·n	32000.0	32500.0	33000.0	33500.0	34000.0	34500.0	35000-6	35500.0	30000	36500.0	0.0007	3.00015	290000	36500.0	0.000 O	0.000	0.0000	0.0000	0.0014	41500.0	42000	42500.0	4.5000 ·	4.5°00.0

WAS USED IN THE INTERPOLATION. AT LEAST DIJE ASSUMED RELATIVE HUMIDITY VALUE \*

ADE PERCENT ADE	STATION ALTITUDE 41. 16 Apr. 60 Asce <sub>is</sub> sio <sub>i</sub> 100. 115	26.59	-	UPPER AIR 11.1. 10700101 HOLLOMAN TABLE 8 (CONT)	; · · · · · · · · · · · · · · · · · · ·		1AL	JEODETIC COURDINATES 32.88865 LAT LEG 106.09965 LON LEG
62.6  -62	RESSURE LLIBARS	TEMP AIR DEGREES			SPEED OF SOUND KNOTS	WIND DA DIRECTION DEGREES(114)	TA SPEED ANOTS	INÚEX OF REFRACTION
62.6  -62	61.4	-61•3		100.9	507.1	269.4	13.A	1.000022
10.2   10.2	59.9	-61.9		98.7	5,6,2	207.5	13.0	1.000022
-63.2 -63.2 -63.2 -63.2 -63.2 -63.2 -63.2 -63.2 -63.3	58.4	-62.6		1.96		205.5	12.3	1.000022
59.6	57.0	-63.2		94.6		205-1	11.3	1.000021
159.00 159.00 159.00 159.00 159.00 159.00 159.00 158.00 15	22.0	1001		6.16		273.3	æ: • •	1.000020
59.2   59.2	20.00	5 to 1		9.00		7.407	7.5	1.000020
-59.0 -69.0 -69.0	51.7	-59.5		84.2		302.7	9	1.000019
59.0 -59.0 -59.0 -59.0 -59.0 -59.0 -58.9 -58.9 -58.9 -58.9 -58.9 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.9 -68.9 -	50.5	-59.0		82.2	570.0	311.1	o o	1.000018
-59.0 -58.9 -58.9 -58.9 -58.9 -58.9 -58.9 -58.9 -58.9 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.7 -68.7	49.3	-59.0		80.2	570.1	340.9	3	1.000018
-58.9 -58.9 -58.9 -58.9 -58.9 -58.9 -58.9 -58.9 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.7 -68.7	48.1	-59.0		76.3		313.3	4.5	1.000017
58.9 -58.9 -58.9 -58.9 -58.9 -58.9 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.8 -58.7 -58.8 -68.8 -	47.0	-58.9		76.4		304.9	₽• <b>†</b>	1.000017
72.8 570.2 342.3 4.1 570.3 342.4 4.7 158.9 568.9 568.9 568.9 569.0 342.4 4.7 158.8 568.8 569.8 570.4 570.3 342.4 4.7 158.8 558.8 569.8 570.4 570.3 342.4 4.7 158.8 558.8 558.8 570.4 570.3 342.7 14.8 11.58.7 58.7 58.7 58.7 58.7 58.7 58.7 58.7	0.04	-58. <del>9</del>		74.0		6.662	4.2	1.000017
71.1 570.3 342.3 4.7 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8	D	0.83°		72.8		3<0.2	4.1	1.600016
58.8  -58.8  -58.8  -58.8  -58.8  -58.9  -58.9  -58.9  -58.7  -68.7  -68	40.4	158.4 0 0 1 1 1		71.1	570.3	342.3	۲.4 د	1.000016
58.8  -58.8  -58.8  -58.8  -58.8  -58.7  -68.7  -68	,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		# 69 10	570.3	357.7	8°C	1.000015
58.8  -58.8  -58.8  -58.8  -58.7  -68.7  -68	41.0	1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		7.70	570.5	0.45	÷ 0	1.000015
-58.8 -58.4 -58.4 -58.4 -58.7 -68.7	39.7	-58.8		64.5	570.4	80.4	14.0	1.000014
58.4 -58.4 -58.7 -68.7 -	30.7	-58.8		63.0	570.4	1.18	14.8	1.000014
58.7  -58.7  -58.7  -58.7  -58.7  -58.6  -58.7  -68.7  -68	37.8	-58·4		61.5	570.4	94.5	14.4	1.000014
58.6 570.5 104.6 12.0 1.00001 15.0 15.0	30.9	-58.7		60.0	570.4	101.5	14.3	1.000013
56.7 56.7 57.6 57.6 57.6 57.1 67.2 57.1 67.1 67.2 67.1 67.2 67.1 67.2 67.1 67.1 67.2 67.1 67.1 67.2 67.1 67.1 67.2 67.1 67.1 67.2 67.1	20.0	-56.		58.6	5/0.5	3.50	12.0	
57.6 57.6 57.6 57.6 57.6 57.7 57.7 57.7	3000	- 20C-		1.0	0.0/G	C.001	ກ • ເພ	
-57.1 -56.6 -56.1	30.5	-57.6		5.46	0/1.6 5:1:4	115.9		
-50.6 -50.1 -50.1 -50.1 -50.1 -50.1 -50.1 -50.1 -50.1 -50.1 -50.0 -50.1 -50.0 -50.1 -50.0	32.8	-57.1		52.8		100.0	3.6	1.000012
-56.1 -55.6 -55.6 -55.1 -55.1 -56.1 -56.1 -56.1 -56.1 -56.1 -56.1 -56.1 -56.1 -56.1 -56.1 -56.2 -56.2 -56.3 -5	32.0	-50.6		.51.4		104.1	3.7	1.000011
55.6 -55.1 -55.1 -55.1 -55.1 -55.1 -55.1 -55.1 -55.2 -55.3	31.2	-5e•1		20.1	574.0	102.4	4.2	1.000011
-55.1 -55.1 -54.8 -54.8 -54.5 -54.5 -54.5 -54.0 -54.0 -54.0 -54.0 -54.0 -54.0 -54.0 -53.7 -53.7 -53.4 -53.4 -53.1	30.5	-55.6		46.8		105.6	5.4	1.000011
-54.8 46.4 575.0 108.6 7.7 1 -54.5 5.4 575.0 108.6 7.7 1 -54.5 5.4 5.5 5.4 101.7 9.0 1 -54.3 -54.0 10.7 9.0 1 -53.7 42.0 5.7.1 42.0 5.7.1 42.0 5.7.1 41.0 5.7.1 41.0 5.7.1 -53.4 41.0 5.7.5 5.4 41.0 5.7.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	29.8	-55.1		47.6		107.6	6.5	1.000011
-54.55 -54.65 -54.65 -54.65 -54.65 -54.65 -54.65 -54.65 -54.65 -54.65 -54.65 -54.65 -54.65 -54.65 -554.65 -554.65 -554.65 -554.65 -553.75 -553.45 -553	29•1	154.8		4.94	575.6	108.6	7.7	1.000010
-54.0 -54.0 -54.0 -53.7 -53.7 -53.4	28.4	101 101 101		45.3	570.0	104.0	8 •	1.000010
-53.7 42.0 57.7.1 575.6 53.7 1 553.4 41.0 57.7.5 1 40.0 5.7.5 1 5.7.5	27.7	7 - 2			576.4	101.7	0.6	1.000010
153.4 153.4 153.4 10.0 5/7.5 10.0 5/2.5 10.0 5/2.5	10/7	104.0		43.1	576.8	0.66	4.6	1.000010
-53.4 41.0 527.5 1 -53.1 40.0 57.9 1 -52.8 39.0 570.3 1	20.0	153.		42.0	5,7,1			1.00000
10001 10000 10000 10000 10000	, c,	# • C ( )		0.14	577.5			1.660669
10.00 Sec. 20.00 Sec.	0.00	1.00		0.04	6.776			1.000004
		0.50		0.65	0.0/0			1.00000

CEODETIC COORDINATES 32.06365 LAT DEV 106.05905 LON DES	INJEX OF REFRACTION 1.000000
0.6.00.5.7 3.2 10.6.	SPEED KROTS
	DATA WIND DATA SPEED GEGREES(1), KIOTS
DATA 15 CONT)	TY SPELD OF RIC SOUND R KNUTS 37.1 579.0
UPPER AIR LATA 1070010115 HOLLOMAN TABLE 8 (CONT)	DENSITY GM/CURIC METER 37.1
<b>5</b>	REL.MM. DENSITY SPELD OF DERCENT GM/CURIC SOUND DERCENT METER KNUTS DE 37.1 5/9.0
STATION ALITTUDE 4126.59 FEET MSL 16 Apr. 0 ASEL, STOL, NO. 115	GEUNLTHIL PRESSURE TEMPERATURE HALLIUME ALIJUME MSL FEET MILLIDAMS DEGREES CENTIGRADE 04,000.0 23.5 -52.3
111UDE 4120	PRESSURE NILLIBAKS 23.5
STATION AL 16 ALR. CO ASLE, STOL.	GEUNETHIL ALIJUNE MSL FEET B4000-0

UEODETO: COUNDINATES 3200-1865 LAT 000 100-09965 LON 186	
UEODE TAN	DA 1 S S S S S S S S S S S S S S S S S S
	MINU DATA DIRECTION SERLESTIN) K 5.7 10. 352.4 12. 352.4 12. 352.4 12. 352.4 12. 352.6 10. 350.0 10. 360.0 10. 360.0 10. 273.0 10. 273.0 10. 273.0 10. 273.0 10. 273.0 10. 273.0 10. 274.0 10. 275.0 10. 277.0 10. 360.0 10.
2) 2) 3) 0	78.1 PER CENT CENT CENT CENT CENT CENT CENT CENT
MANDATORY 10701. HOLLOMAN	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE 18.6 3.3 14.4 -3.8 10.6 -3.8 10.6 -3.8 10.6 -3.8 10.6 -3.8 10.6 -3.8 10.6 -49.7 -11.7 -23.5 -16.3 -30.5 -49.3 -49.1 -44.8 -49.3 -42.7 -53.1 -49.1 -44.8 -53.1 -49.1 -49.3 -42.7 -53.1 -49.1 -60.2 -60.2 -60.2 -60.6 -50.0 -50.0 -50.0 -50.0
₹ ¥	AIR AIR 18.6 14.4 10.6 114.4 10.6 114.4 10.6 114.4 114
I MS:	JLLIBARS FEET  850.0 5041.  850.0 6733. 750.0 10378. 650.0 12345. 650.0 14425. 550.0 14425. 550.0 24371. 450.0 24371. 450.0 24371. 350.0 27439. 350.0 27439. 350.0 34820. 175.0 45237. 125.0 39560. 125.0 34829. 70.0 01071. 60.0 04235. 50.0 02342.
ALT:TUDE 4126.59 FEET MS 00 1600 HRS MSI 00 115	MILLIBARS  MILLIBARS  850.0  750.0  750.0  750.0  750.0  750.0  750.0  750.0  750.0  750.0  750.0  750.0  750.0  750.0  750.0  750.0
0.00 C. C.	

	SIGNIFICANT LEV
STATION ALTITUDE 4051.00 FEET MSL	107003010
16 APR. 80 0800 HRS MST	JALLEN
ASCENSION NO. 108	
	TABLE 10

DATA	
GNIFICANT LEVEL 1070030108	JALLEN

GEODETIC COONDINATES 33.16712 LAT DEG 106.49511 LON DEG

PRESSURE	2 =	TEMPE	TEMPERATURE	REL.HUM.
MILLIBARS		DEGREES	CENTIGRADE	
880.8	051.	S.	-5.5	23.0
•	693	13.5		23.0
850.0	5037.4		-5.5	23.0
781.6	359.	12.8	•	ź2•0
<b>‡</b>	8769.	<b>1.</b> 0		24.0
0.00	35	4.9	'n	28.0
41.6	2666.	-1:1	ġ	31.0
₩•68	4863.	-7.8	-19.9	37.0
8	6351,	-12.4	-23.2	40.0
	7485.	-14.0	•	17.0
•	•	-17.6	ģ	18.0
ŧ	•	0	•	17.0
o	24343.7	-31.3		18.0
•	-	<b>P</b>	-48°3	Ø
φ.	-			
ņ	•			
0	-			
	•	60		
ō,	•	•		
•	•	ċ		
٥	•	-52.4		
o.	•	53		
\$	•	å		
o.		;		
0	•	-52.1		
95.0	•	51.		
5	•	22		
29.6	•	22		
200	260%	6.86-		
1.621	48686.9	ø١		
5 C	0046	2010		
0.	2521.	-62.1		
0	٠	-62.1		
2.9	٠	•		
81.8	662	6.49-		
3.0	0275	-67.0		
0:0	1113.			
3	-	-63.0		
8.4	2674.			
_	63577.4	-60.1		

919
-----

of UDETIC COORLINATES 33.16712 LAT DEG 106.49511 LON DEG

REL.HUM.	PFRCENT									
TEMPERATURE	AIR DEWPOILT	DEGREES CENTIGHADE	-62.7	-60.3	-57.4	-59.3	-57.0	-55.3	-50.6	5.44-
PRESSURE GEOMETRIC	ALTITUDE	MILLIBARS MSL FEET	56.6 65444.0		42.8 71208.0	33.4 76365.4	30.0 78601.1	24.0 83292.7	20.0 87184.1	12.8 96949.5

STATION ALTITUDE 16 Apr. 60 Ascension No. 10	TUDE 40	151.00 FEET MSL 0800 HRS MST	T MSL MST		UPPER AIR UA 1070030106 JALLEN TABLE 11	UATA 06		GEODETIC 33.16	DETIC COOKDINATES 33.16712 LAT DEG 106.49511 LON DEG
GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPI AIR DEGREES	TEMPERATURE R DEWPOINT EES CENTIGRADE	REL .HUM. PERCENT	DENSITY GM/CUBIC METER	SPLED OF SOUND KNOTS	*IND DATA DIRECTION S DEGREES(T <sub>14</sub> ) K	TA SPEED KNOTS	INDEX OF REFRACTION
	3 000	¥,		,	1061.2		0.00		30000
G • • • • • • • • • • • • • • • • • • •	9.000			0.60	7.1001	000	•		
9.0004	851.1	+ F		0.60	1026.2	0.000	458.4	ָ	1.00021
2000	7 4 6	2	, 4	4.00	1009.0		1000	•	1000
6.00.0	821.0	100	-6.7	22.6	993.0		3524	0	0000
6500.0	800.3	13.8	-7.3	22.4	977.2		350.2		.00023
7,000.0	791.8	13.2	6.4-	22.2	961.7	619	350.4	11.6	1.000250
7500.0	177.6	12.5	-8.5	22.2	947.0		1.3	•	•
8000.0	763.5	11.3	1-6-	22.9	933.8		4.7	•	•
8500·0	749.7	10.0	9.6-	23.6	920.9		7.5	14.5	1.000219
9000.0	730.1	8.7	-10.4	54.6	908 4	0.450	7•4	14.2	1.000216
9500.0	722.6	7.3	-11.0	r	896.2	6,25,9	<b>2.</b> 0	٠	1.000212
10000.0	709.3	٠	~	27.1	884.3	5-100	359.5	13.0	1.000209
10500.0	6969	<b>4</b> .0	-12.3	28.5	872.4	0.649	349.7	12.2	1.000206
11000.0	683.2	3.2	-13.1	28.8	860.1		3,55.3	11.7	•
11500.0	670.5	1.9		29.5	848.1		322.2	11.1	1.000199
12060.0	627.9	• 1	6-51-	30.1	836.3		308.6	•	1.000196
12500.0	0.000		15.7	30.8	954.6	4.0.40	3000	10.8	1.000193
1.5000.0	9550	N I	-16.6	31.9	613.3	641.7	2,72.6	10.9	1.000150
350 <b>U•</b>	65150	n:	-17.4	2000	802.3	639.9	7.69Z	11.4	1.000187
0000	000	2.0	-18.5	34.6	791.5		280.3	11.8	1.000164
14500	197. C. :: Q.		2.61	20.0	770.4		7.007	1.01	191000-1
15500.0	574.8	8 6	-21.3	10.00	759.7		265.4	13.5	1.000175
100000	563.6	-11.3	-22.4	39.3	749.3		206.8		1.060172
16500.0	552.5	-12.6	-24.5	37.0	738.3		288.2	16.3	1.000169
17000.0	241.6	-13.3	-28.3	ø	725.6		291.0	18.0	1.000165
17500.0	530.9	-14.0	-33.7	17.0	713.6	627.2	292.3	19.4	1.000161
9000R	520.3	-15.2	34.5	-	702.6	6,55.7	292.3	20.5	1.000158
8500	209.9	-16.4	-35.3	17.7	691.8	?9	293.3	21.1	1.000156
19000.0	1.66#	-17.6	-36.1	180	681.1		295.0	21.7	1.000153
19500.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01	10/61	1,01	8.699	ð	0.662	22.7	1.000.1
20000.0	1.6/4	5	-38.0 30.0	7.4	8	ė.	301.3	24.0	1.060148
20500.0	_	120.4	0.65-	1.7	<u>}</u> ;	2	301.00	25.7	000
_	2000	-21.8	T • 0 • 1	1.7	637.8	-	_	26.7	•
21500.0	•	-23.2	2.1.5	17.2	628.1	Ω	29/02	27.2	1.000141
•	•	-24.6	ů.	•	9.819	+	7.667	:	1.000139
2500.	35	-26.1	'n.	17.5	60	612.4	293.3	•	1.000136
2	N.	-27.5	# 1	17.6	0	610.7	291.7	56.9	
23500.0	† • † I †	-28.9	1.5.4	17.8	0.164	J. 0. 1	€ • fi 4,2	£7.4	1 - 1 - 6 - 6 - 5 - 5

STATION ALITE	UDE 40 108	51.00 FEET 0800 HRS MS	ET MSE. MST		UPPER R LA 1070cc010cc	7 LATA 010c		0f.0D_71C 33.1 106.4	171C COCHUINATES 33.1671; LAT LEG 06.49511 LON DEG
GEOME TRIC	PRESSURE	TEM	TEMPERATURE	REL.HUM.	TABLE 11 DENSITY	(CONT) SPEED OF	IND DATE	1 1 2	INUEX
ALIATUDE MSL FEET	MILLIBARS	DEG	CENTIGRADE	PERCEN	GM/CUBAC METER	SOUND KNOTS	DEGREES(1,1)	NIOTS NIOTS	REFRACTION.
-	405.8	-30.3	6.94-	17.9	582.1	607.1	289.0	27.2	1.000130
24500.0	•	-31.7	-48.0	18.0	573.	6.500	287.8	26.7	1.000128
	388.9	-33.1	-49.1	18.0		603.7	267.4	26.5	1.000126
•	380.4	で・オロー	-51.5	15.4**	554	002.1	•	26.6	•
20000.0	372.	-35.5	-54.5	12.6**		600.5	290.1	28.1	•
26500.0	364	-36.8	-57.3	9.7**	536	599.0	•	30.1	•
27000-0	356	-38.0	-61.0	<b>*</b> 6	527.7	597.4	297.5	29.6	
27500.0	948	39.3	ů,	٠	518.9	5,50	301.8	29.0	•
0.000	א כ	0 0	7.0/-	,	2.010	7**6C	7.000	6.07	•
28500.9		0.14			500.5	593.6	304.6	8.4.2	•
0.000.00		141			1000 1000	500 m	3 · · · · · · · · · · · · · · · · · · ·	0.00	1.000109
		-43.1			471.8		293.6	26.4	
24		0.44-			463.1		249.0	27.4	1.000103
		8.44-			•		245.2	27.6	_
31500.0		745.5			445.6		263.1	27.9	-
32000 · 0		146.2			436.9		283.B	28.2	1.000097
32500.0		1000			5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		203.tc	28.6	•
33000-0		7 · / · · ·			0.074	2000	#•20Z	2.5	1.000094
34000		0.01			40.04	1010 1010 1010 1010	27301	1.00 P.	•
34500.0		-50.1			396.1	501.6	272.4	35.0	1.000068
35000.0		-51.0			388.7	560.0	270.8	38.2	•
35500.0		-51.6			380.7	579.9	271.0	39.6	•
36000.0		-52.2			372.9	579.1	274.1	39.3	1.000083
36500.0		-52.7			365.1	578.4	277.1	39.0	•
37,000.3	222.0	153.2			307.4	577.1	20.70	5.85 6.05 6.05	1.000080
300000		-52.7			3400	7 7 7 6	280.1		
385,00					1999	5,77.7	278.7	30.00	1.0000
39000.0		-53.9			326.3	576.8	277.1	39.8	1.000073
39500.0		-52.3			316.4	579.0	275.5	40.1	
40000.0		-51.9			308.5	579.4	274.1	6.04	1.000069
40200.0		-55.5			302.1	578.7	272.8	41.9	•
41000.0	180.	-53.3			296.1	5,77.5	272.0	_	1.000066
41500.0		-54.0			290.5	576.7	272.0	43.6	•
0	•	-24 · B			284.4	575	2/2-1		•
25,000	174.1	-55.6			278.8	5.5	Ċ.	מ	•
2000	• 3	9			v	574	÷ u	Ø .	•
42500.0	100.0	1.00.1			\$	•		*6.5	1.600059
		1			:		1		

.\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

DETIC COOKUINATES 33.16712 LAT DEG 106.49511 LON DEG	INDEX OF REFHACTION	1.00005 1.00005 1.00005		.4 1.000049 .5 1.000048 .4 1.000048			4 1.000035 6 1.000035 5 1.000034 9 1.000033 7 1.000032 5 1.000032		<b>-</b>
GEODETIC 33.16 106.49	ATA SPEED KIJOTS	50.9 52.2 52.3	52.1 50.1 49.3	5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	50 50 50 50 50 50 50 50 50 50 50 50 50 5	P	200 200 200 200 200 200 200 200 200 200		800
	MIND DATA DIRECTION S DEGREES(TN) K	275.9 276.3 276.0	0.000 0.000 0.000 0.000 0.000	2742	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	286. 292. 292. 292. 292.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	291.5 3000.6 31000.6 3120.6 5000.6 5000.6	260.7 255.0 240.5
LOS (CONT)	SCUND KNUTS	573.1 572.4 571.4	570.5 569.6 568.8 567.9	565.4 565.4 565.6	500.00 500.00 500.00				0.490 0.400 0.400
UPPER AIR DATA 1070030108 JALLEN TABLE 11 (CON'	DENSITY S GM/CUBIC METER	260.9 255.3 250.1	245.0 239.8 234.7 7.925	2004 2004 2106 2106 2006	10990	185.3 181.0 176.8 172.5 168.3	155.0 155.0 146.0 146.0 176.0 176.0	139.7 135.6 133.7 127.9 1116.6	108.6 108.6 105.4
-	REL.HUM. PERCENT								
ET MSL MST	TEMPERATURE R DEWPOINT EES CENTIGRADE								
1.00 FEET M 1800 HRS MST	TEMI AIR DEGREES	-56.8 -57.3 -58.0	-58.7 -59.4 -60.0	-61.9 -62.5 -62.4	61.2	-61.7 -62.1 -62.1 -62.1	160.7 160.7 162.8 162.8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	63.5 -63.5 -60.4
STATION ALTITUDE 4051.00 FEET MSL 16 Apr. 60 0800 HKS MST ASCENSION NO. 108	PRESSURE MILLIBARS	162.1 158.2 154.5	150.8	133.5 133.5 130.3 127.1	121.1	112.5 109.8 104.1 102.0	944.0 92.5 90.2 90.2	85.00 77.00 77.00 72.00 72.00 72.00	65.4 63.8 62.2
STATION ALTITION ALTITION APPROPRIESTON NO.	GEOMETRIC ALTITUDE MSL FEET	44000•0 44500•0 45000•0	45500.0 45000.0 46500.0 47000.0	0.00000 0.00000 0.00000 0.00000	50500.0 50500.0 50500.0	51500.0 52000.0 52500.0 53000.0 53500.0	540000 5450000 5560000 5550000 5650000	57500.0 58500.0 59500.0 60000.0 61000.0	62500.0 62500.0 63000.0

STATION ALTI 16 APR 80	TUDE 40	Si.OO FEET MSL 0800 HRS MS:	T MSL MS T	-	UPPER AIR 1070030106 JALLEN	TA 108		55005110	GEODETIC COORDINATES 33.16712 LAT DEG
ASCENSION	•			F	TABLE 11 (C	(CONT)		• 001	49311 LON DEG
SEUME TRIC	PRESSURE	Ī	TEMPERATURE	REL . HUM.	DENSITY	SPEED OF	WIND DATA	TA	INDEX
ASI FEET	HILLIBARS	AIR DEGREES	CENTIGRADE	PERCEN	GW/CUBIC METER	SOUND KNCTS	DEGREES (TN)	SPEED KNOTS	NEFRACTION
0.00049	60.7	-60.7	,		9•66	5,7,9	229.2	10.1	1.000022
0.00549	59.3	-61.4			97.5		250.2	11.5	1.000022
0.00050	57.8	-62.1			95.5		219.2	11.8	1.000021
65500.0	56.4	-62.6			93.4	-	228•3	10.5	1.000021
0.00000	55.1	-62.2			91.0		239.0	9.5	1.000020
65.00·	53.8	-61.7			98.6		255.0	4.6	· 00005
0.00020	52.5	-61.2			86.2		281.1	6.1	•
67500.0	•	-60.8			84.0		312.3	6.3	.0000
68000.0	20.0	-60.3			81.8	5.8.4	300.5	1.9	10000
68500•0	48.8	-59.8			79.6		30.400	<b>.</b> .	1.000018
0.000					75.4	1000	3000	ָ פּי	
70000.0	ŝ	-58.5			73.6		301.0		• •
70-000-0	•	-58.0			71.7		31101	5.6	
71000.0	43.2	-57.6			6.69		330.6	0.9	.0000
71500.0	45.5	-57.5			68.2		340.4	7.0	
72000.0	2. T.	-57.7			9.99		3	<b>6.8</b>	1.000015
77.00.0	7.01	* · · · ·			1.00		e	æ .	• 00001
73.00.0	0	108.1			9.50	9-17-	210	9 0	10000.
74,000.0	30.0	7.00			1.09	1112	1.60	? .	**************************************
	1,000	4.64			50.1	5,000	91.1	7.7	10000
75000.0	35.7	-58.8			0 - 80 - 80	570.0	7.06		1.000013
	34.8	-59.0			56.6	570.1	90•1	12.7	1.000013
16000.0	34.0	-59.5			55.3	5°60'6	9.68	12.2	1.000012
76500.0	33.2	-59.2			54.0	6.60g	1.06	11.1	.0000
0.000//	32.4	158.6			52.6		2.06	0.0	1.000012
780000	3	1.00-			7.10		4.10	0	1100001
78500.0	30.1	-57.1			48.6	572.6	91.6	0 0	1.00001
79000.0	29.4	-56.9			さったさ		91.3	8.7	.00001
79500.0	28.7	-56.7			46.3		2.06	9.4	1.000010
60000	28.1	-56.5			45.1		6.69	9.1	1.000010
٠	•	-56.3			0.11		69.1	7.7	1.000010
16,00	-	ທ			0.64		8.78	4.9	1.000010
1500	•	-55.9			6.14		30.6	8.5	1.000009
2000	•	S			0		1.16	8.5	1.000009
2500.	•	<b>ທ</b> (			39.9	*/c	49.5 33.45	10.0	1.000009
3000°	24.5	ຂໍ້ເຕັ			å.	•	•		1.000009
0.00000	K2.0	255.0			38.0	5,5,3	7•/0	13.3	1.000008

## TEMPERATURE REL.HUM. DENSITY SPEED OF AIR DEWPOINT PERCENT GM/CUBIC SOUND DIRE ## SUCHES S	STATION ALTIT 16 APR. 60 ASCENSION NO.	TITUDE 40 NO. 108	51.00 FEET MSL 0800 HRS MSI	, ,	1070030106 JALLEN TABLE 11 (CONT)	SONT)		GEODETI 33. 106.	GEODETIC COORDINATES 33.16712 LAT DEG 106.49511 LON DEG
23.2 -54.4 22.2 -53.6 22.2 -53.6 22.2 -53.6 22.6 -52.6 21.6 -52.6 21.1 -52.0 21.1 -52.0 20.7 -50.4 20.7 -50.4 20.7 -50.4 20.7 -50.4 20.7 -50.4 20.8 -49.5 20.1 -49.5	ETRIC TUDE FEET	PRESSUKE MILLIBARS	TEMP AIR UEGREES		U	SPEED OF SOUND KNOTS	#IND DATA DIRECTIO, S DEGREES(IN) N	SPEED NIOTS	INUEX OF REFRACTION
22.7 -53.8 22.2 -53.2 21.6 -52.6 21.1 -52.0 20.1 -57.7 20.1 -57.7 20.2 -50.8 19.3 -50.8 19.3 -50.9 19.3 -50.9 18.4 -49.5 18.6 -48.5 16.8 -48.5 16.9 -47.9 16.0 -47.9 16.1 -47.9 16.1 -47.9 16.2 -46.7 16.3 -47.9 16.4 -47.9 16.5 -46.7 16.6 -46.7 16.7 -47.9 16.8 -46.1 16.9 -46.7 16.9 -46.7	0.000	23.2	-24.4		37.0	576.1	84.5	13.9	1.000008
22.2 - 53.2 - 55.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.6 - 52.0 - 52	500.0	22.7	-53.B		36.0		81.7	14.3	1.000008
21.6 -52.6 21.1 -52.0 21.1 -52.0 21.1 -52.0 20.1 -51.4 20.2 -50.8 19.3 -50.4 19.3 -49.8 18.4 -49.8 17.2 -48.5 16.8 -48.5 16.8 -48.5 16.9 -47.9 16.0 -47.6 15.0 -46.3 14.6 -46.3 14.6 -45.4 14.1 -45.4 14.1 -45.4 14.1 -45.4 14.1 -45.4 15.1 -45.4 15.1 -45.4 15.1 -45.4 15.1 -45.4	0.000	22.2	-53.2		35.1		79.1	14.7	1.000008
21.1 -52.0 20.7 -51.4 20.8 -50.8 19.3 -50.8 19.3 -50.8 19.4 -49.8 18.4 -49.8 18.6 -48.8 16.8 -48.8 16.8 -48.5 16.9 -47.9 16.0 -47.6 15.0 -46.3 14.0 -55.7 14.0 -55.7 14.1 13.4 -45.4 14.6 -45.4 14.6 -45.4 15.1 15.1 15.2 -45.4 15.1 15.1 15.2 -45.4 15.1 15.1 15.2 -45.4 15.1 15.2 -45.4 15.1 15.2 -45.4 15.1 15.2 -45.4 15.1 15.2 -45.4 15.1 15.2 -45.4 15.1 15.2 -45.4 15.1 15.2 -45.4 15.1 15.2 -45.4	5500.0	21.6	-52.6		34.2		78.6	14.3	1.000008
20.7 -51.4 20.2 -50.8 19.7 -50.8 19.3 -50.1 18.8 -49.8 18.4 -49.5 18.0 -48.5 16.8 -48.5 16.8 -48.5 16.9 -47.9 16.0 -47.9 15.0 -46.3 14.6 -46.3 14.1 -45.4 15.1 -45.4 16.1 -45.4 16.2 -50.5 16.3 -47.9 16.3 -47.9 16.3 -47.9 16.3 -47.9 16.3 -47.9 16.3 -47.9 16.4 -50.1 16.5 -40.9 16.7 -47.9 16.8 -46.3 16.9 -46.3 16.9 -46.3 16.9 -46.3	0.000	21.1	-52.0		33.3		19.0	13.5	1.000007
20.2 -50.8 19.7 -50.4 19.3 -50.4 18.8 -49.8 18.4 -49.2 18.6 -48.8 17.2 -48.8 16.4 -47.9 15.0 -46.7 15.0 -46.3 14.0 -45.4 14.6 -45.4 14.6 -45.4 13.4 -45.4 14.6 -45.4 14.6 -45.4 15.1 15.1 15.2 -45.4 15.3 -45.4 15.3 -45.4 15.4 -45.4	500.0	20.7	-51.4		32 • 4		19.4	12.7	1.000007
19.7 -50.4  19.3 -50.1  18.8 -49.8  18.9 -49.2  18.0 -49.2  15.0 -46.3  14.0 -50.1  14.0 -50.1  15.1 -40.8  13.4 -40.8  14.0 -50.1  14.0 -50.1  15.1 -40.8  15.1 -40.9	0.000	20.5	-50.8		31.6		61.5	12.3	1.000007
19.3 -50.1  18.8 -49.8  18.9 -49.5  18.0 -49.2  16.0 -48.5  16.0 -48.5  15.1 -47.9  15.1 -47.0  14.1 -45.4  14.1 -45.4  15.1 -45.4  15.1 -45.4  15.1 -45.4  15.1 -45.4  15.1 -45.4	500.0	19.7	-50·#		30.8	5.1.4	84.7	12.0	1.000007
18.8 -49.8 18.4 -49.5 18.4 -49.5 18.6 -48.8 17.2 -48.8 16.8 -48.2 15.1 -47.9 15.1 -47.9 15.0 -46.7 14.0 -45.4 13.4 -45.4 14.8 15.1 -45.4 15.1 -45.4 15.1 -45.4 15.1 -45.4 15.1 -45.4 15.1 -45.4 15.1 -45.4	0.000	19.3	-50.1		30.1	5.1.8	0•6a	11.8	1.000007
18.4 -49.5 18.0 -49.2 17.6 -48.8 17.2 -48.8 16.8 -48.2 16.8 -48.2 16.9 -47.9 16.1 15.7 -47.0 15.0 -46.3 14.5 -46.3 14.0 -7.5.7 13.7 -45.4 13.4 -45.4 13.4 -45.4	0.005	18.8	8.64-		4.62	502.3	9.06	11.6	1.000007
18.0 -49.2 17.6 -48.8 17.2 -48.8 17.2 -48.5 16.8 -48.2 16.9 -47.9 16.1 -47.9 15.3 -47.0 15.3 -46.7 14.6 -46.3 14.0 -75.7 13.7 -45.4 13.4 -45.4 13.4 -45.4	0.000	18.4	5.64-		28.7	562.7	6.26	11.5	1.000006
17.6 -48.8 17.2 -48.5 16.8 -48.5 16.8 -48.2 16.9 -47.9 16.0 -47.9 15.1 -47.6 15.3 -47.0 15.3 -47.0 14.5 -46.3 14.5 -46.3 13.7 -45.4 13.4 -45.4 13.4 -45.4	500.0	18.0	2.64-		28.0		95.0	11.3	1.000006
17.2 -48.5 16.8 -48.2 16.8 -48.2 16.4 -47.9 16.0 -47.9 15.0 -47.6 15.0 -46.3 14.5 -46.3 14.0 -45.4 13.4 -45.4 14.8 15.1 -46.3 15.1 -45.4 13.4 -45.4 13.4 -45.4	0.000	17.6	-48.8		27.3		97.2	11.2	1.000006
16.8 -48.2 16.4 -47.9 16.0 -47.6 15.0 -47.6 15.0 -46.7 14.5 -46.3 14.5 -46.3 14.6 -46.3 14.1 -46.3 13.7 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4	500.0	17.2	-48.5		26.7		9•66	11.2	1.00000
16.4 -47.9 16.0 -47.9 15.0 -47.5 15.3 -47.0 15.0 -46.3 14.6 -46.3 14.0 -5.6 13.7 -45.4 13.4 -45.4 13.4 -45.8	0.000	16.8	-48.2		26.0		102.1	11.2	1.000006
16.0 -47.6 15.7 -47.3 15.3 -47.0 15.0 -46.7 14.6 -46.3 14.0 -46.7 13.7 -45.4 13.4 -45.4 13.1 -46.8	500.0	16.4	6.24-		25.4		104.5	11.2	1.000006
15.7 -47.3 15.3 -47.0 15.0 -46.7 14.6 -46.3 14.3 -46.0 14.0 -46.1 14.1 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.4	0.000	16.0	-47.6		54.6		106.1	11.0	1.000006
15.3 -47.0 15.0 -46.7 14.5 -46.3 14.5 -46.3 14.0 -45.0 13.7 -45.4 13.4 -45.4 13.4 -45.4 13.4 -45.8 13.4 -45.8	500.0	15.7	-47.3		24.5		107.6	10.8	1.000005
15.0 -46.7 14.5 -46.3 14.3 -46.0 14.0 -45.7 13.7 -45.4 13.4 -45.4 13.1 -46.8	0000	15.3	0-44-		23.6		109.5	10.6	1.000005
14.6 -46.3 14.3 -46.0 14.0 -45.7 13.7 -45.4 13.4 -45.1 13.4 -45.1 13.4 -45.1	500.0	15.0	-46.7		23.0		111.6	10.3	1.000005
14.3 -46.0 14.0 -45.7 13.7 -45.4 13.4 -45.1 13.1 -46.8	0.000	14.6	-46.3		22.5		113.7	10.1	1.000005
14.0 -55.7 20.9 13.7 -45.4 20.9 13.4 -45.1	500.0	14.3	0.9%-		22.0		116.0	0.0	1.000005
13.7 -45.4 13.4 -45.1 13.1 -44.8	0.000	14.0	-1:5.1		21.4				1.000005
13.4 -45.1	500.0	13.7	+·S+-		50.0				1.000005
13.1 -44.8	0.000	13.4	-45.1		20.4				1.000005
	500.0	13.1	8-11-		19.9				1.000004

STATION ALTITUDE 43511110 16 Apr. 60 0800	SAANO FEET MSE 0800 HRS MS:	्र इ.स. <b>इ.</b>	Z.	MANDATORY LEVELS 1070030105 JALLEN	EVELS 06		GEODETIC COONDINATES 33,16712 LAT DEG
				TABLE 12			topidati con pro
PRESSU	RE GE	PRESSURE GEOPOTENTIAL	TEMP	TEMPERATURE	REL . HUM.	WIN, DATA	ATA
MILLIBARS	RS	FEET	AIR DEGREES (	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(IN)	SPEED KNOTS
<i>y</i>	0.030	44503	15.5		e e	158.0	7.
	0.008	67134		-7.6		352.8	, C
25	750.0	8485	10.1	8.6		7.5	3 to 1 to
02	200.0	10348.	6.4	-12.0	.00	353.6	12.5
65	650.0	12312.	2	-15.4	51.		10.8
09	60000	14391.	<b>-6.4</b>	-19.0	36.		12.1
52	550.0	16594.	-12.8	-25.1	.55		10.7
50	500.0	18960.	-17.6	-36.1	18.		21.7
ST .	450.0	21522.	-23.3	-41.3	17.	297.0	27.2
07	0.004	24305.	-31.3	9.44-	18.		26.8
35	350.0	27358.	-39.0	-64.7	2.**		29.1
30	300.0	50785.	9.44-				27.5
25	250.0	34740.	-50.8				37.2
20	0.0	39468.	-52.1				40.1
71	175.0	42288.	-55.4				8.44
51	150.0	45490	-58.9				51.8
12	5.0	49206.	-62.0				51.5
01	9.0	53739.	-62.1				38.5
•	80.0	58254.	-65.3				23.1
7	0.0	•060°	-66.3				15.9
•	0.09	04027•	-61.0				10.7
S	20.0	67733.	-60.3			308.7	6.1
<b>.</b>	40.0	72336.	-57.9			す・ナ	6.9
K	30.0	78272.	-57.0			91.4	3.8
N	25.0	82071.	-55.6			89.9	9•6
O.	0.0	86783.	-50.6			82.4	12.2
<b>~</b>	5.0	92990•	-46.7			111.2	10.4

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.